

Serial No. 10/796,302
Docket No. PTGF-04009
(HIR.093)

3

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A light emitting device, comprising:
a light emitting element; and
a phosphor layer that includes ~~is composed of~~ phosphor glass to generate fluorescence while being excited by light emitted from the light emitting element,[[;]]
wherein the light emitting element emits ultraviolet light, and the phosphor glass generates visible fluorescence while being excited by the ultraviolet light, and
the phosphor glass comprises a low-melting phosphor glass doped with a fluorescence activation element.
2. (Currently amended) The light emitting device according to claim 1, wherein:
the phosphor glass includes ~~contains~~, as a glass component, at least one of Tb³⁺ (terbium), Eu²⁺ (divalent europium) and Eu³⁺ (trivalent europium).
3. (Currently amended) The light emitting device according to claim 1, wherein:
the phosphor layer includes ~~is composed of~~ a plurality of layers including that are
of different kinds of the phosphor glass glasses.
4. (Currently amended) The light emitting device according to claim 1, wherein:
the phosphor glass comprises particle-shaped phosphor glass ~~is particle-shaped~~,
and
the phosphor layer includes ~~is composed of~~ a transparent material and the particle-shaped phosphor glass that is dispersed in the transparent material.

Serial No. 10/796,302
Docket No. PTGF-04009
(HIR.093)

4

5. (Currently amended) The light emitting device according to claim 4, wherein:
the particle-shaped phosphor glass includes ~~is composed of~~ different kinds of the particle-shaped phosphor glasses.
6. (Currently amended) The light emitting device according to claim 4, wherein:
the phosphor layer includes ~~is further composed of~~ a phosphor material other than the phosphor glass, the phosphor material being dispersed in the transparent material.
7. (Currently amended) The light emitting device according to claim 4, wherein:
the transparent material comprises at least one of ~~is~~ low-melting glass and ~~or~~ synthetic resin.
8. (Currently amended) A light emitting device, comprising:
a light emitting element;
an optical system that converges light emitted from the light emitting element,[[:]]
wherein the optical system includes ~~is composed of~~ phosphor glass, and
the phosphor glass comprises a low-melting phosphor glass doped with a
fluorescence activation element.
9. (New) The light emitting device according to claim 1, wherein:
the low-melting phosphor glass comprises a fluorophosphate glass.

Serial No. 10/796,302
Docket No. PTGF-04009
(HIR.093)

5

10. (New) The light emitting device according to claim 1, wherein:
the phosphor layer is entirely formed of phosphor glass comprising a basic glass component doped with a fluorescence activation element.
11. (New) The light emitting device according to claim 8, wherein:
the low-melting phosphor glass comprises a fluorophosphate glass.
12. (New) The light emitting device according to claim 8, wherein:
the optical system is entirely formed of phosphor glass comprising a basic glass component doped with a fluorescence activation element.